

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.

TOWNSEND
and
TOWNSEND
and
CREW

LLP

Denver, Colorado
Tel 303 571-4000

Palo Alto, California
Tel 650 326-2400

Seattle, Washington
Tel 206 467-9600

San Francisco

Two Embarcadero Center
Eighth Floor
San Francisco
California 94111-3834
Tel 415 576-0200
Fax 415 576-0300

FACSIMILE COVER SHEET

Date: July 27, 2001	Client & Matter Number : 02307E-088610US	No. Pages (including this one): 6
To: Examiner Michael Brannock, Ph.D. Art Unit 1646 - USPTO	At Fax Number: 703-308-0294	Confirmation Phone Number: 703-306-5876
From : Annette S. Parent (4184)		

Message:

Re: Application No. 09/361,652

For interview on August 2, 2001 at 3:00 p.m. EDT.

Original Will:	<input type="checkbox"/>	BE SENT BY MAIL	<input type="checkbox"/>	BE SENT BY FEDEX/OVERNIGHT COURIER	<input type="checkbox"/>	BE SENT BY MESSENGER	<input checked="" type="checkbox"/>	NOT BE SENT
----------------	--------------------------	-----------------	--------------------------	------------------------------------	--------------------------	----------------------	-------------------------------------	-------------

Faxed: Return to: Karen J. Iovino - (4292)

If you have problems with reception please call Fax Services at extension 4659

Important

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and/or exempt from disclosure by applicable law or court order. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above address via the United States Postal Service. Thank you.

SF 1252412 v1

DRAFT CLAIMS FOR THE PURPOSES OF DISCUSSION

To: Examiner Michael Brannock, Ph.D.

Fax number: 703-308-0294

Telephone number: 703-306-5876

Application No.: 09/361,652

Attorney docket number: 02307E-088610US

Please cancel claims 7, 9, and non-elected claims 19-33, and 36-60 without prejudice to subsequent revival.

Please amend claims 1, 10, 11, 14, 17, 61, 62, and 63 as follows.

1. (twice amended) An isolated nucleic acid encoding a sensory transduction G-protein coupled receptor, [the receptor comprising greater than about 70% amino acid identity to an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the nucleic acid encodes a receptor that specifically binds to polyclonal antibodies generated against SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3] wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

3. (as filed) The isolated nucleic acid of claim 1, wherein the nucleic acid encodes a receptor that has G-coupled protein receptor activity.

4. (as filed) The isolated nucleic acid of claim 1, wherein the nucleic acid encodes a receptor comprising an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3.

5. (as filed) The isolated nucleic acid sequence of claim 1, wherein the nucleic acid comprises a nucleotide sequence of SEQ ID NO:4, SEQ ID NO:5, or SEQ ID NO:6.

6. (as filed) The isolated nucleic acid of claim 1, wherein the nucleic acid is from a human, a mouse, or a rat.

8. (as filed) The isolated nucleic acid of claim 1, wherein the nucleic acid encodes a receptor having a molecular weight of about between 92 kDa to about 102 kDa.

10. (twice amended) An isolated nucleic acid encoding a sensory transduction G-protein coupled receptor, [the receptor comprising greater than about 70% amino acid identity to a polypeptide having a sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3,] wherein the nucleic acid selectively hybridizes under moderately stringent hybridization conditions[, which end with a wash step at 45°C in a solution comprising 1x SSC, to a nucleotide sequence of SEQ ID NO:4, SEQ ID NO:5, or SEQ ID NO:6] to a nucleotide sequence of SEQ ID NO:4, SEQ ID NO:5 or SEQ ID NO:6, wherein the hybridization reaction is incubated at 37°C in a solution comprising 40% formamide, 1M NaCl and 1% SDS and washed at 45°C in a solution comprising 1x SSC.

11. (twice amended) An isolated nucleic acid encoding an extracellular domain of a sensory transduction G-protein coupled receptor, [the extracellular domain having greater than about 70% amino acid sequence identity to amino acids 1-563 of SEQ ID NO:1, wherein the extracellular domain specifically binds to polyclonal antibodies generated against amino acids 1-563 of SEQ ID NO:1] wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding amino acids 1-563 of SEQ ID NO:1, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

12. (as filed) The isolated nucleic acid of claim 11, wherein the nucleic acid encodes the extracellular domain linked to a nucleic acid encoding a heterologous polypeptide, forming a chimeric polypeptide.

13. (previously once amended) The isolated nucleic acid of claim 11, wherein the nucleic acid encodes amino acids 1-563 of SEQ ID NO:1.

14. (twice amended) An isolated nucleic acid encoding a transmembrane domain of a sensory transduction G-protein coupled receptor, [the transmembrane domain comprising greater than about 70% amino acid sequence identity to amino acids 563 to 812 of SEQ ID NO:1, wherein the transmembrane domain specifically binds to polyclonal antibodies generated against amino acids 563-812 of SEQ ID NO:1] wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding amino acids 563-812 of SEQ ID NO:1, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

15. (as filed) The isolated nucleic acid of claim 14, wherein the nucleic acid encodes the transmembrane domain linked to a nucleic acid encoding a heterologous polypeptide, forming a chimeric polypeptide.

16. (previously once amended) The isolated nucleic acid of claim 14, wherein the nucleic acid encodes amino acids 563-812 of SEQ ID NO:1.

17. (twice amended) The isolated nucleic acid of claim 14, wherein the nucleic acid further encodes a cytoplasmic domain [comprising greater than about 70% amino acid identity to amino acids 812 to 840 of SEQ ID NO:1], wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding amino acids 812-840 of SEQ ID NO:1, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

18. (previously once amended) The isolated nucleic acid of claim 17, wherein the nucleic acid encodes amino acids 812 to 840 of SEQ ID NO:1.

34. (as filed) An expression vector comprising the nucleic acid of claim 1.

35. (as filed) A host cell transfected with the vector of claim 34.

61. (twice amended) A method of making a sensory transduction G-protein coupled receptor, the method comprising the step of expressing the receptor from a recombinant expression vector comprising a nucleic acid encoding the receptor, [wherein the amino acid sequence of the receptor comprises greater than about 70% amino acid identity to a polypeptide having a sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the receptor specifically binds to polyclonal antibodies generated against SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3] wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

62. (twice amended) A method of making a recombinant cell comprising a sensory transduction G-protein coupled receptor, the method comprising the step of transducing the cell with an expression vector comprising a nucleic acid encoding the receptor, [wherein the amino acid sequence of the receptor comprises greater than about 70% amino acid identity to a polypeptide having a sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the receptor specifically binds to polyclonal antibodies generated against SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3] wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

63. (twice amended) A method of making an recombinant expression vector comprising a nucleic acid encoding a sensory transduction G-protein coupled receptor, the method comprising the step of ligating to an expression vector a nucleic acid encoding the

receptor, [wherein the amino acid sequence of the receptor comprises greater than about 70% amino acid identity to a polypeptide having a sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the receptor specifically binds to polyclonal antibodies generated against SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3] wherein the nucleic acid specifically hybridizes under highly stringent conditions to a nucleic acid encoding an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

1252099